

Commonwealth of Kentucky
Division for Air Quality
EXECUTIVE SUMMARY

PROPOSED

Title V, Construction/Operating

Permit: V-08-031

Kentucky State University

Frankfort, KY 40601

November 25, 2008

Massoud Kayvanjah, Reviewer

SOURCE ID: 21-073-00001

AGENCY INTEREST: 1405

ACTIVITY: APE20080002

SOURCE DESCRIPTION:

A source wide operating Title V (TV) application for Kentucky State University (KSU) was received on July 25, 2008. Additional information was submitted on August 6, 2008 and August 29, 2008. Currently, the source has an operating permit (O-79-444) for the two coal fired boilers (40 and 20 MMBtu/hr). An 18 MMBtu/hr natural gas indirect heat exchanger was constructed in 1989, and other fourteen small once ranging between 1.2 MMBtu/hr and 3.5 MMBtu/hr installed between 1983 and 2008. The insignificant units at the source include thirty five (35) small space heaters, twelve (12) water heaters, four (4) natural gas fired emergency generators, and six (6) diesel emergency generators.

The source is classified as a Title V, due to its having potential emissions of regulated air pollutants, nitrogen oxides (NO_x), sulfur dioxide (SO₂) and carbon monoxide (CO), greater than a major source threshold. This permit contains practically enforceable limit to preclude Section 112(j), of Clean Air Act (CAA). Emissions calculation is based on AP-42 emission factors and units operating hours of 8760 per year, except for the diesel generators whose potential was calculated on 500 hours per year. In addition, KSU is voluntarily taking limit on the hour of operation for the coal boiler to 5000 hours per year, in order to stay below major source the hazardous air pollutant, hydrogen chloride (HCl).

PUBLIC AND AFFECTED STATE REVIEW:

Affected states Indiana was notified of the issuance of the draft permit on October 2, 200 via e-mail. On October 12, 2008, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in *The State Journal* in Frankfort, Kentucky. The public comment period expired 30 days from the date of publication. No states are affected by this permit action.

No comments were received during this period. The final determination of this Division is that the proposed operation will comply with all air quality regulations and requirements. The permit is now being issued as proposed. A final permit will be issued after the U.S. EPA's 45-day review.